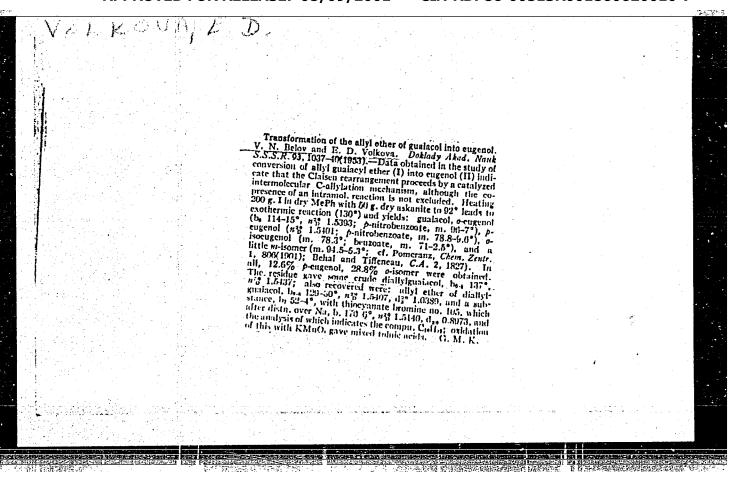
"Esters du choline et de ses homologues." by S. I. Lurje, Z. I. Fedorova and l'etudiant E. D. Folkova. (739)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1941, vol 11, no 9.

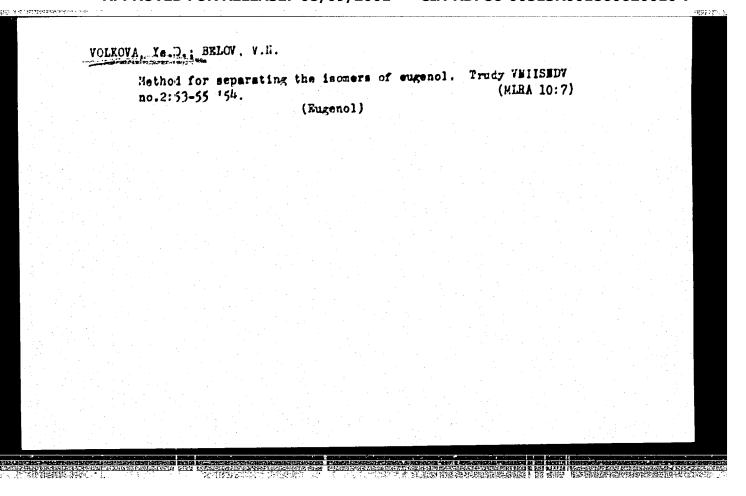


VOLKOVA, Ye.D.; BELOV, V.N.; LUR'TE, S.I.

Prenaration of isosugenol from 4-oxy-3-sethoxypropiophenone.
Trudy VNIISNDV no.2:42-45 '54. (MLRA 10:7)

(Isosugenol) (Propiophenone)

	V.N.: 701	LKOVA, Yo.D.					
				HIISMUV no.2:	45-53 154. (N)	IRA 10:7)	



C-allylation of	guaicol by allyl alconol		WILLIAM No. 2: 56-57 (MIRA 10: 7)	
7**•	(Guaicol) Allyl ale	cohol)		

VOLKOVA, Ye. I. (Phys)

VOLKOVA, Ye. I. (Phys) - "Significance of Chronic Tonsillitis in the Development and Prognosis of Pheumatism in Children." Sub 22 Dec 52, Second Moscow State Medical Inst imeni I. V. Stalin. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

VOIKOVA, Ye. I.

Relation of chronic tonsillitis to rheumatism in children. Pediatriia, Moskva no.4:18-23 July-Aug 1953. (CIML 25:1)

1. Of the Department of Faculty Pediatrics (Scientific Supervisor -- Prof. D. D. Lebedev), Second Moscow Medical Institute imeni I, V. Stalin.

VOLKOVA, Ye.I.

Role of oral hygiene in the treatment of rheumatism in children.

Pediatriia no.1:3-7 Ja-F '54. (MLRA 7:3)

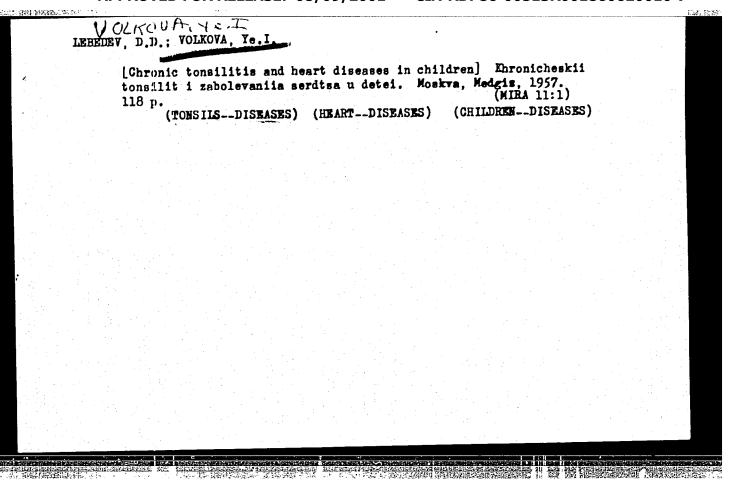
1. Iz kafedry fakul'tetskoy pediatrii II Moskovskogo meditsinskogo instituta im.I.V.Stalina (zaveduyushchiy kafedroy P.A.Ponomareva).

(Rheumatism) (Mouth)

VOLKOVA, Ye.I.

Clinical aspects of chronic tonsillitis in children. Sov.med. 17 no.ll: 33-35 M '53. (MLRA 6:12)

1. In kafedry fakul'tetskoy pediatrii (nauchnyy rukovoditel' - professor D.D.Lebedev, ispolnyayushchiy obyasannost' zavedujushchego kafedroy P.A.Fonamareva) II Moskovskogo meditsinskogo instituta im. I.V.Stalina. (Tonsils--Diseases) (Children--Diseases)



EYGES, Nadezhda Romanovna; VOLKOVA, Ye.I., red.; MARKOVA, T.A., red.; MIKHAYLOVA, L.V., red.; PANFILOVA, T.S., red.; SLAVINA, L.S., red.; ZAGIK, L.V., red.; NOVOSELOVA, V.V., tekhn. red.

[Prevention of nervousness in children] Opreduprezhdenii četskoi nervonosti. Moskva, Izd-vo Akad. pedag. nauk KSFSR, 1962. 15 p. (MIRA 15:6)

(CHILDREN—CARE AND HYGIENE)

TARASOVA, Ol'ga Titovna; SVADKOVSKIY, I.F., red.; VCLKOVA, Ye.I.,
red.; VOLZHETSOVA, L.K., red.; MARKCVA, T.A., red.;
MIKHAYLOVA, L.V., red.; PANFILOVA, T.S., red.; SLAVINA,
L.S., red.; ZAGIK, L.V., red.; GARNEK, V.P., tekhn. red.

[How to protect children from common colds] Kak uberech!
detei ot prostudy. Moskva, Izd-vo AFN RSFSR, 1963. 15 p.
(NIRA 16:12)

VOLKOVA, Ye.I., inzh.; KHIRIN, N.D., inzh.; BARYSHNIKOV, A.P., inzh.;

K(ZHEVNIKOV, G.A., inzh.; KHOKHRIN, K.G., inzh.; BABKOV, V.A.,

inzh.; VNUKOV, A.K., kand.tekhn.nauk

Starting clutch for draft and blowing machinery and pit mills.

Teploenergetika 8 no.6:31-32 Je '61. (MIRA 14:10)

1. Yuzhnoye otdeleniye Gosudarstvenhogo tresta po organizatsii i ratsionalizatsii elektrostantsiy.

(Clutches (Machinery))

(Electric power plants—Equipment and supplies)

VOLKOVA, Ye. I.

USSR/ Chemistry - Catalysts; Sulfuric Acid

1 Sep 53

"Catalytic Activity of Metals and of Platinum-Gold Alloys in Respect to the Oxidation of Sulfur Dioxide," G. K. Boreskov, M. G. Slin'ko, and Ye. I Volkova

DAN SSSR, Vol 92, No 1, pp 109,110

Studies the catalytic activity of Cr. Rh, Pd, Ag, W, Pt, Au, and of an alloy consisting of 5% Au and 95% Pt on the oxidation of SO₂. Most of the above metals had a low activity due to their instability under the conditions of the reaction. At 560° Pt is more active than Au, but the Pt-Au alloy has a low activity. Refutes the conclusions of D. A. Dowden, Chem Soc, Issue 1, 245, 1950. Presented by Acad M. M. Bubinin 3 Jul 53.

274112

CIA-RDP86-00513R001860620010-7 "APPROVED FOR RELEASE: 08/09/2001

VOLKEVA, Ye. I.

WOLKOVA, VE.1.

AID P - 3699

Subject

: USSR/Electricity

card 1/1

Pub. 29 - 4/25

Authors

Title

Vnukov, A. K., Ye. I. Volkova and Yu. V. Pavliv, Engs.

THE PROPERTY OF PR Measuring the temperatures of drums of high pressure

boilers during the firing

Periodical

: Energetik, 12, 10-11, D 1955

Abstract

According to the circulars of the Technical Administration of the Ministry of Electric Power Stations 4/T52 and T1/54, the firing of high pressure boilers has to be done in such a way, that the temperature differences between the hottest and coldest parts of the boiler drums do not exceed 30° to 50° C. The authors present a simplified method of measuring drum temperatures. Three drawings.

Institution:

None

Submitted

No date

VOLKOVA, Ye.I., dotsent

Causes of relapses in rheumatism in tonsillectomized children.

Sov.med. 25 no.12:103-107 D '61. (Mina 15:2)

1. Iz detskogo sanatornogo otdeleniya (rukovoditel' - doktor meditsinskikh nauk A.V. Dolgopolova, nauchnyy konsul'tant - zasluzhennyy deyatel' nauki prof. D.D.Lebedev) Nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMM SSSR prof. A.I.Nesterov) na baze detskogo sanatoriya No.57.

(RIEDMATIC FEVER) (TOMSILS_SURGERY)

VOLKOVA, Ye. I.

Importance of chronic focal infection in the course of rheumatism in children in a local sanatorium. Pediatriia 41 no.3:22-26 '62. (MIRA 15:2)

1. Iz sanatornogo detskogo otdeleniya (zav. - prof. A. V. Dolgopolova) Nauchno-issledovatel skogo instituta revmatizma M Ministerstva zdravochraneniya RSFSR (dir. - deystvitel nyy ehlen AMN SSSR prof. A. N. Nesterov, nauchnyy rukovoditel - prof. D. D. Lebedev) na baze detskogo sanatoriya No. 57 Mosgorzdrava (Glavnyy vrach L. F. Poteyenko)

(RHEUMATIC FEVER) (FOCAL INFECTION)

VOLKOVA. Ye. M.

"The Natural Copper Content in Food Products." Sub 26 Mar 51, Second Moscow State Medical Inst imeni I. V. Stalin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

Problem of organizing an effective diet. Vop.pit. 17 no.5:81-83
S-0 '58

1. Is kafedry gigiyeny pitaniya (zav. - dots. A.W. Yumusov) Kasanskogo meditsinskogo institutae

(DIMT,
balanced diet arrangement (Rus))

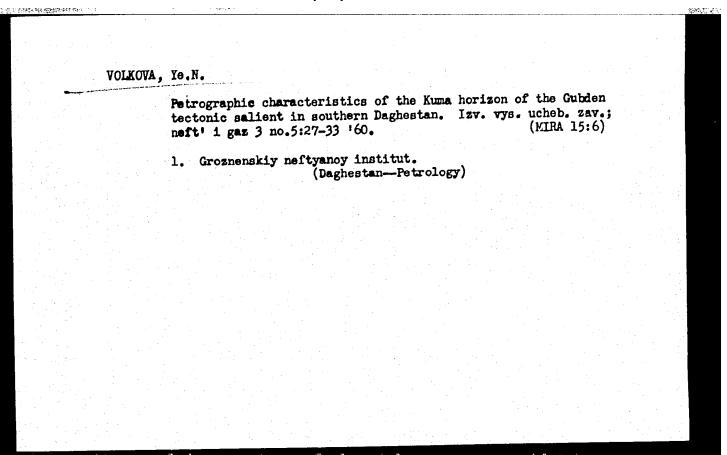
KAGAN, I.S., dots.; ZAYTSEV, Kh.F., dots.; SHAGOVSKAYA, N.S., kand.
tekhn.nauk; VOLKOVA, Ye.N., inzh.; VOLOKH, I.A., inzh.

Riconomic evaluation of the use of pellets in blast furnace
smelting. Izv.vye.ucheb.zav.; chern.met. 2 no.6: 145-154
Je '59.

i. Dnepropetrovskiy metallurgicheskiy institut, Rekonendovano
'cafedroy skomomiki promyshlennogo Dnepropetrovskogo metallurgicheskogo instituta.

(Blast furnaces) (Sintering)

	Λf	ວ ພາດໄ	esale D	lue of i rice lis no.8:187	t ior	es as a these or '61.	basis i es. Iz	for the		lishmen . zav. MIRA 14	
	1.	Dnepro	petrovs	kiy meta	llurgi (I	cheskiy ron ores	institu Price	es)			
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URANOV, A.A.; VOIKOVA, Ye.N., red.; SMIRNOVA, M.I., tekhn. red.

[Programs of pedagogical institutes; summer field work in botany for natural science faculties] Programmy pedagogicheskikh institutov; letniaia uchebnopolevaia praktika po botanike dlia fakultetov estestvoznaniia. [Moskva] Uchpedgiz, 1956. 14 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedeniy. (Botany-Study and teaching)

VOLKOVA, Ye.N.

Anatomy of the leaf in desert ephemerals. Uch. zap. MOPI 79:59-71
(MIRA 14:9)

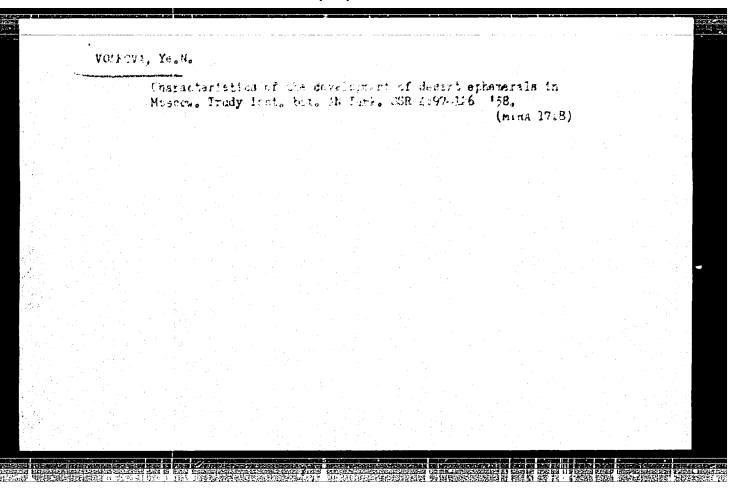
(Leaves-Anatomy) (Desert flora)

MEDVEDEV, I.A.; GLIKMAN, E.S.; BEL'GOL'SKIY, B.P.; VOLKOVA, Ye.N.;

APPROVED FOR RELEASE: '08/09/2001 CIA-RDP86-00513R001860620010-7"

Methods of determining the effect of the volume of output on the magnitude of general plant expenditures and metallurgical plant production costs. Izv. vys. ucheb. zav.; chern. met. 6 no.6: 209-213 '63. (MIRA 16:8)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Iron industry) (Steel industry)



ACC NR: AP7006229 $(A N)^{-}$

SOURCE CODE: UR/0078/67/012/001/0062/0067

AUTHOR: Rashkovich, L. N.; Koptsik, V. A.; Volkova, Ye. N.; Izrailenko, A. N.; Plaks, E. M.

ORG: Physics Department, Moscow State University (Fizicheskiy fakul tet, Moskovskiy gosudarstvennyy universitet)

TITIE: Some properties of aqueous solutions of NH4H2PQ4 and ND4D2PQ4

SOURCE: Zhurnal neorganicheskoy khimii, v. 12, no. 1, 1967, 62-67

TOPIC TAGS: ammonium phosphate, deuterium compound, deuterium oxide

ABSTRACT: The solubility of NH4H2PO4 (ADP) and ND4D2PO4 (D-ADP) and the density, refractive index and conductance of their aqueous solutions were studied in order to make use of the corresponding concentration and temperature relationships for the control of the crystallization process. The deuterated compound was prepared by successive crystallizations of ADP from heavy water. The solubility of ADP and D-ADP was found to be linearly related to the temperature: c = 26.21 + 0.4463 t, and the solubility of D-ADP in D20 surpasses that of ADP in H20 by about 8%. A plot of the density of the ADP and D-ADP solutions versus their concentration gave a linear dependence. The refractive index data are described by the linear relationships

> $N_{ADP} = 1.3309 + 0.00138c$ ND-ADP= 1.3285 + 0.00138c.

1/2 Card

546.39 185 -- 384.1.04+549.39 11.2 185 -- 384.1.04

ACC NR: AP7006229

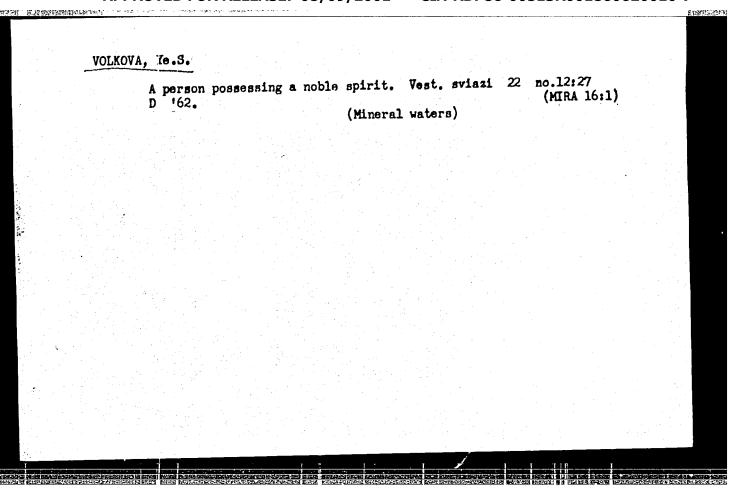
At all the concentrations studied, the specific conductance X of ADP and D-ADP solutions changed linearly with temperature (between 25 and 70 °C). Because of the lower mobility of D+ ions as compared to H+, the conductance of saturated D-ADP solutions is much less than that of ADP solutions. Using the relationships established in the study, the authors grew homogeneous single crystals of ADP and D-ADP for research purposes. The authors thank A. V. Shubnikov for discussing the results and Ya. I. Ryskin for analyzing the IR spectra and determining the degree of deuteration of D-ADP crystals. Orig. art. has: 5 figures and 3 tables.

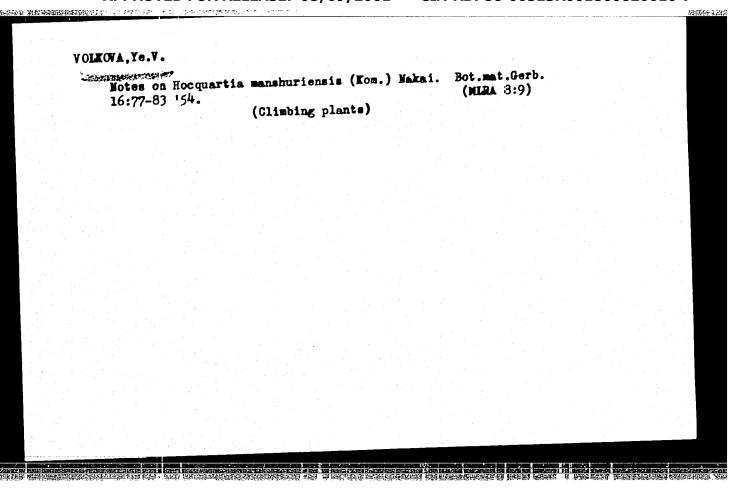
SUB CODE: 07/ SUEM DATE: 03Feb65/ ORIG REF: 005/ OTH REF: 006

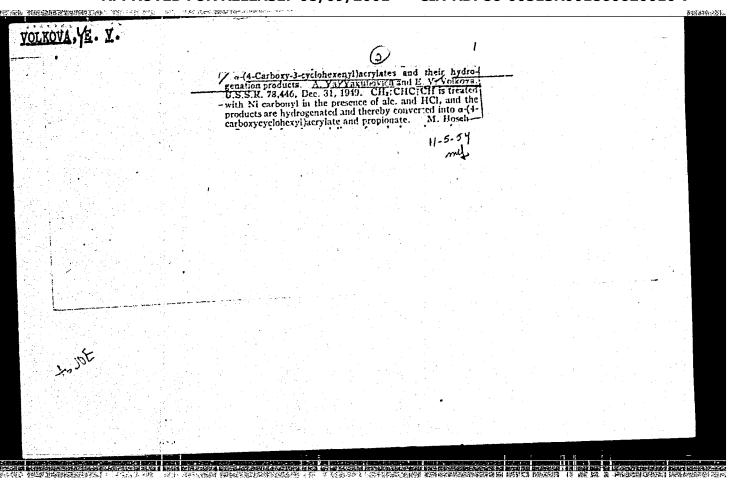
Card 2/2

SHCHUKIN, Ivan Semenovich; VOLKOVA, Ye.P., red.

[General geomorphology] Obshchaia geomorfologiia. Mcakva, Izd-vo Mosk. univ. Vol.2. 1964. 563 p.
(MIRA 18:2)





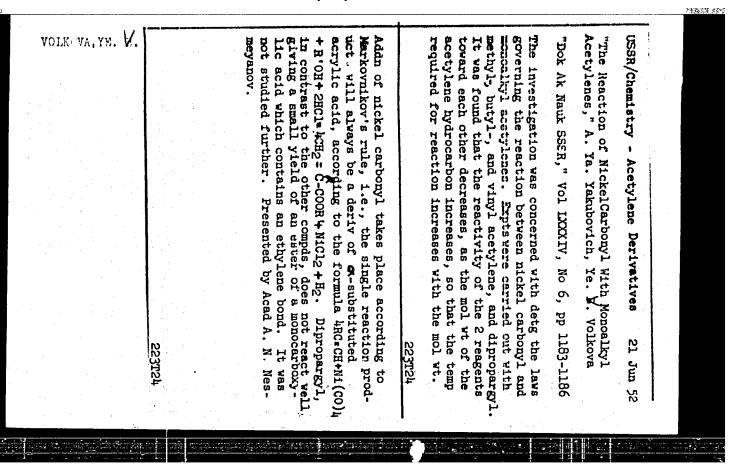


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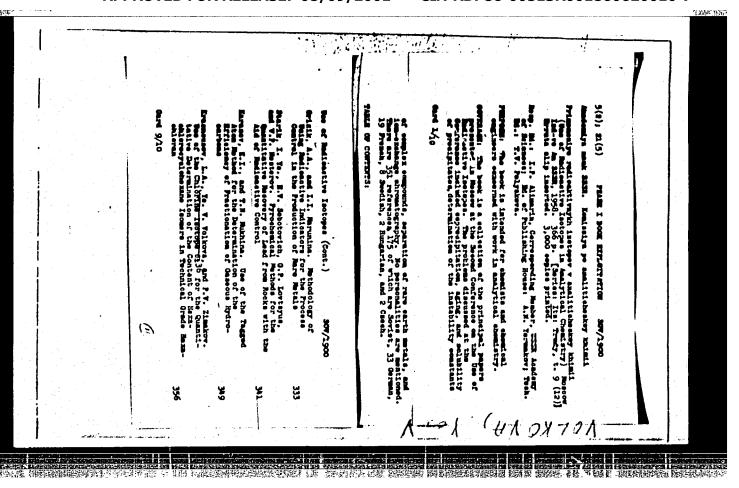
VOLKOVA, Ye. V.

"Investigation of the Reaction of Nickel Carbonyl With Acetylene Hydrocarbons." S Thesis for degree of Cand. Chemical Sci. Sub 31 Oct 50, Inst of Organic Chemistry, Aced Sci USSR

Summary 71, 4 Sep 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1950.



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FOKIN, A.V.; VOLKOVA, Ye.V.; SOROKIN, A.D.

Utilization of energy of ionizing radiations in the process of polymerization of trifluoroethylene. Polymerization of trifluoroethylene in block and in the medium of chlorine-containsolvents. Khim.nauka i prom. 4 no.6:806-807 '59. (MIRA 13:8) (Sthylene) (Polymerization) (Gamma rays)

82356

s/063/60/005/001/009/009

5.3831

AUTHORS:

Fokin, A. V., Volkova, Ye. V., Sorokin, A. D.

TITLE:

On the Use of the Energy of Ionizing Radiation in the Process of Copolymerization of Trifluorochloroethylene With Various Monomers

PERIODICAL:

Zhurnal vsesoyuznogo khimicheskogo obshchestva im. D. I. Mendeleyeva,

1960, Vol. 5, No. 1, p. 120

The possibility was shown of radiation copolymerization of trifluorochloroethylene with various perfluorinated and partially fluorinated olefines and TEXT: also with ethylene oxide. Vinylidenefluoride, perfluoropropylene, tetrafluoroethylene and ethylene oxide were used as second components in the copolymerization under the action of 7-radiation. The experiments were carried out at room temperature in metal ampoules made of 39-17 (EYa-1T) stainless steel. The copolymerization of trifluorochloroethylene with vinylidenefluoride was carried out in the molar ratio CF₂ = CFCl : CH₂ = CF₂ from 3 : 1 to 1 : 3 at a dose intensity of 14-16 r/sec and a dose of 2-3 million r. Under these conditions practically the complete conversion of both monomers is obtained. The radiationchemical yield is 3-5,000 molecules per 100 ev. The copolymer obtained is sufficiently resistant against alcohols, various oils and nitric acid; it is

Card 1/2

82356

\$/063/60/005/001/009/009/

On the Use of the Energy of Tonizing Radiation in the Process of Copolymerization of Trifluorochloroethylene With Various Monomers

soluble in diethyl ether, acetone and esters. The copolymers of trifluorochloroethylene with perfluoropropylene, trifluorochloroethylene with tetrafluoroethylene and the polymer of vinylidenefluoride were obtained under analogous conditions. A copolymer of trifluorochloroethylene with ethylene oxide was obtained under the action of 7-radiation of Co⁶⁰. There are 3 tables and 3 references: 2 Soviet and 1 American.

SUBMITTED: September 30, 1959.

Card 2/2

S/089/60/009/005/012/020 B006/B070

AUTHORS:

Krasnousov, L. A., Zimakov, P. V., Volkova, Ye. V.

TITLE:

Radiochemical Chlorination of Benzene

PERIODICAL:

Atomnaya energiya, 1960, Vol. 9, No. 5, pp. 412 - 414

TEXT: The radiative chlorination of benzene was studied under standard conditions in order to study the possibility of using nuclear radiations for the production of hexachlorane. As can be seen from the Table, the different radiations led to the formation of hexachlorocyclohexane (HCCH) characterized by a high content of alpha phase. In addition to data on thermal, chemical (benzene peroxide), and infrared chlorination, the Table gives the following data:

Card 1/3

s/089/60/009/005/012/020

Radiochemical Chlorination	of Benze	ene S/ BC	'089/60/009 06/8070	/005/012/020
Concentration g chlorine/100g C6H6	t°C	γ-Isomer %	α-Isomer %	Mean energy ev
Ultraviolet (3650A)14.0 β: (3.48 rad/sec,	40	11.3	73.8	3 - 5
total: 2.4·10 ⁴ rad)14.0 γ: (6.75 rad/sec,	40	10.2	78.5	0.4.10 ⁶
total: 2.4.10 ⁴ rad)14.0	40	11.8	83.5	1.2.106-1.3.106

On the contrary, the content of α -isomer on chemical chlorination is only 63.7%. The chlorination was done for pure substance and for solution in CCl $_4$. The β source was Sr 90 , and the γ source, Co 60 . The radiochemical yield of the reaction was 853,000 per 100 ev; it was, however, strongly dependent on the purity of the starting material. If industrially pure benzene is used, the yield is only 130,000. The ultraviolet yielded 9000 molecules per 100 ev. The radiative chlorination rate is proportional to the square of radiation intensity (benzene without solvent). In CCl solution, the rate of reaction is essentially lower.

Card 2/3 -

Radiochemical Chlorination of Benzene

S/089/60/009/005/012/020 B006/B070

Radiative chlorination of benzene is possible also at low temperatures in solid phase; the total yield increases with decreasing temperature down to -80° C. Chlorination remains incomplete for temperatures still lower (at -120° C, the content of tetrachlorocyclohexane reaches 58%). The effect of temperature on the isomeric composition of HCCH was also studied. While the total yield of HCCH has its maximum at -80° C, the content of α -isomer decreases from 83.5 to 38% for the fall of temperature from 40 to -190° C. The yield of γ -isomer also depends on the concentration of chlorine. The formation probabilities of α -, β -, γ -, δ -, and ξ -isomers were calculated to be 27.8, 4.63, 25.0, 26.0, and 16.7%, respectively. There are 4 figures, 1 table, and 3 references: 1 Soviet.

SUBMITTED: March 31, 1960

Card 3/3

87528

s/079/60/030/012/012/027 B001/B064

5.3300

AUTHORS:

Yakubovich, A. Ya. and Volkova, Ye. V.

TITLE:

Synthesis of Vinyl Monomers. XI. Reaction of Vinyl Acetylene With Nickel Carbonyl: 1-vinyl cyclohexene-3-dicarboxylic

Acid-1,4 and Its Derivatives

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 12,

pp. 3972-3978

TEXT: The authors found already previously that in the reaction of some alkyl acetylenes with nickel tetracarbonyl in alcoholic media, α -alkyl acetylenes by the Markovnikov rule. Therefore, in the reaction of acrylates form by the Markovnikov rule. Therefore, in the reaction of vinyl acetylene with Ni(CO)₄ in alcoholic media the formation of α -vinyl vinyl acetylene with Ni(CO)₄

acrylates was to be expected: 4CH₂= CH -C = CH + Ni(CO)₄ + 2HCl COOR

+ 4ROH \longrightarrow 4CH₂-CH-C-CH₂ + NiCl₂ + H₂. The authors, however, found that instead of the esters, their dimers form. Esters of dicarboxylic acid

Card 1/3

87528 \$/079/60/030/012/012/027 B001/B064

Synthesis of Vinyl Monomers. XI. Reaction of Vinyl Acetylene With Nickel Carbonyl: 1-vinyl cyclohexene-3-dicarboxylic Acid-1,4 and Its Derivatives

C8H10(COOH)2 were the resulting reaction products. By determining the parachors Abstracter's note: the coefficient P is meant in the empirical of the individual ester dimers and their dihydroand tetrahycro derivatives, the dimer was clearly identified as a cyclic derivative. Since, however, the calculated values of this kind for compounds with six- and four-membered cycles and their difference are within the experimental error limit, the structure had to be chemically confirmed. A number of chemical experiments showed that the ester dimers obtained which are formed in the reaction of vinyl acetylene with Ni(CO)4. are derivatives of vinyl cyclohexene dicarboxylic acid, and that this reaction into alcohol media is accompanied by the formation of the esters of 1-vinyl cyclohexene-3-dicarboxylic acid-1,4 (I). In a paper (Ref. 3) published after this paper had been finished, the structure of α -(4--carbethoxy cyclohexene-3-yl)-acrylic acid is wrongly ascribed to the final product of the above reaction. This error is proven by the identity of vinyl cyclohexene dicarboxylic acid obtained by the authors with the Card 2/3

87528

Synthesis of Vinyl Monomers. XI. Reaction of S/079/60/030/012/012/027 Vinyl Acetylene With Nickel Carbonyl: '-vinyl B001/B064 cyclohexene-3-dicarboxylic Acid-1,4 and Its Derivatives

acid obtained (Scheme 2) by saponifying the diene condensation product of 2-cyanobutadiene (Ref. 4). In the catalytic hydrogenation of the esters of 1-vinyl cyclohexene-3-dicarboxylic acid-1,4, 2 hydrogen atoms are added to the latter in the first stage, and derivatives of 1-ethyl cyclohexene-3-dicarboxylic acid-1,4 form. In the following, more difficult, hydrogenation two further hydrogen atoms are added so that finally, derivatives of 1-ethyl cyclohexane-1,4-dicarboxylic acid result. Esters, acid chlorides, amides, and other derivatives described in the experimental part were obtained from the acids. There are 9 references: 4 Soviet, 3 US and 2 German.

SUBMITTED: January 11, 1960

Card 3/3

354.37

S/081/62/000/004/074/087 B138/B110

112214

AUTHORS:

Zimakov, P. V., Volkova, Ye. V., Fokin, A. V., Sorokin, A. D.,

Belikov, V. M.

TITLE:

Use of nuclear radiation energy in the process of the

polymerization of fluoro-olefines

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 4, 1962, 557, abstract 4P24 (Sb. "Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 1. M.", Gostoptekhizdat, 1961, 219-226)

TEXT: The processes of the separate and combined radiation polymerization of tetrafluorethylene and trifluorchlorethylene have been investigated with the aim of eliminating some of the deficiencies in existing methods of fluoro-olefine polymerization. It has been found that tetrafluorethylene and trifluorchlorethylene can easily be polymerized under various temperature conditions and mediums with comparatively low radiation intensities. The resulting polymers have a high degree of purity. The possibility of producing various fluoro-copolymers by radiation is demonstrated. Both radiation polymerization and radiation vulcanization might be carried out in the case of fluor-containing rubbers. [Abstracter's note: Complete translation.]

VOLKOVA, Ys.V.; FOKIN, A.V.; BELIKOV, V.M.

Polymerization of tetrafluoroethylene by the action of gazna rays. Zhur-VKHO 6 no.1:113-114 '61. (MIRA 14:3) (Ethylene) (Gamma rays) (Polymerization)

S/0190/64/006/005/0964/0964

ACCESSION NR: AP4037294

AUTHORS: Volkeva, Ye. V.; Skobina, A. I.

TITLE: Radiation polymerization of hexafluoropropylene in the liquid and solid

phases

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 5, 1964, 964

TOPIC TAGS: hexafluoropropylene polymerization, liquid phase, radiation polymerization, cobalt 60

ABSTRACT: The effect of gamma-irradiation by Co60 on hexafluoropropylene was investigated within a temperature range of 77-303K in the liquid and solid phases of the monomer, and also at the point of phase transition. A dosage of 600 rad/sec. was used. It was shown that polymerization of hexafluoropropylene in the liquid and solid phases at various temperatures and at identical dosage did not produce sharp changes in the rate of the process. The rate did not change when the polymerization was conducted at the point of phase transition. It was found that the index of the polymerization rate as related to the radiation intensity changes with temperature and is equal to 1 at 298K to 0.5-0.6 at 195K, and to 0.4 at 77%. The change in the activation energy in relation to the polymerization

Card 1/2

ACCESSION NR: AP4037294

temperature is represented in a graph showing that the magnitude and sign of the activation energy undergo a change within the temperature interval of 263-195K. The radiochemical yield changes with the intensity of radiation, but is almost independent of the temperature. The products of hexafluoropropylene transformation under the effect of Co60 / -radiation proved to be a low-molecular polymeric fluid which is being currently isolated and analyzed by the authors. Orig. art.

ASSOCIATION: none

SUBMITTED: 03Feb64

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: MT

NO REF SOV: 000

OTHER: 000

Card 2/2

ACCESSION NR: AP4012280 '

\$/0070/64/009/00170102/0103

AUTHORS: Galiperin, Ye. L.; Dubov, S. S.; Volkova, Ye. V.; Mlenik, M. P.

TITLE: The crystalline structure of polytrifluochloroethylene

SOURCE: Kristallografiya, v. 9, no. 1, 1964, 102-103

TOPIC TAGS: chloroethylene, crystal structure, x ray diffraction, crystal pulling, polymer, camera NKV 86A

ABSTRACT: The authors undertook this work because of contradictions in the literature on the cell dimensions and chain configuration of this compound. They obtained precisely oriented samples of the polymer by pulling in glycerin at $150-160^{\circ}$. The samples were then heated in their extended state for 10 hours at $190-195^{\circ}$. X-ray patterns were obtained on cylindrical film in an RKV-66A camera. The pictures are characterized by lines of the first and second levels and by an absence of equatorial reflections. The lines of the second level correspond to hexagonal packing. The value of the lattice constant was determined to be a = 6.385 ± 0.015 A. Along the axis of the crystal fiber, $c = 42 \pm 0.2$ A. Seventeen monomer units are packed along this line, indicating a crystal density of

Card 1/2

ACCESSION NR: AP4012280 2.20 + 0.02 g/cm³, which is in good agreement with experimental density measurements. The absence of equatorial reflections and the presence of intense, almost point, reflections at lines of the first, second, and third layers indicates that the first reflection should be referred to (101), not to (100) as has been done in previous work. Orig. art. has: 2 figures. ASSOCIATION: none SUBMITTED: 09Apr63 DATE ACQ: 19Feb64 ENCL: 00 SUB CODE: SS, dV NO HEF SOV: 003 OTHER: 005			•	
2.20 + 0.02 g/cm ³ , which is in good agreement with experimental density measurements. The absence of equatorial reflections and the presence of intense, almost point, reflections at lines of the first, second, and third layers indicates that the first reflection should be referred to (101), not to (100) as has been done in previous work. Orig. art. has: 2 figures. ASSOCIATION: none SUBMITTED: 09Apr63 DATE ACQ: 19Feb64 ENCL: 00 SUB CODE: SS, dX NO REF SOV: 003 OTHER: 005			•	
ments. The absence of equatorial reflections and the presence of intense, almost point, reflections at lines of the first, second, and third layers indicates that the first reflection should be referred to (101), not to (100) as has been done in previous work. Orig. art. has: 2 figures. ASSOCIATION: none SUBMITTED: 09Apr:63 DATE ACQ: 19Feb64 ENCL: 00 SUB CODE: SS, dC NO REF SOV: 003 OTHER: 005	AP4012280			
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ENT(m)/ETC(f)/EPF(n)-2/EWG(m)/EWP(j)/T/EWA(h)/ETC(m)-5/EWA(l) L 23299-66 DS/WW/GG/RM SOURCE CODE: UR/0020/66/167/005/1057/1059 AP6012920 ACC NRI AUTHOR: Volkova, Ye. V.; Zimakov, P. V.; Pokin, A. V. ORG: none TITLE: Radiation-induced polymerization of fluoroolefins SOURCE: AN SSSR. Doklady, v. 167, no. 5, 1966, 1057-1059 TOPIC TAGS: fluroolefin, polymerization, radiation induced polymerization ABSTRACT: A study has been made of the kinetics of the radiation-induced polymerization of certain fluoroolefins in the gaseous liquid, and solid phases at -196 to 80 C, and dose rates of 6-600 rad/sec and doses of 0.012 to 250 Mrad. The results are given in graphic and tabular form. It was found that in order of decreasing polymerization rate the fluoroolefins studied arranged themselves as follows: CF=CF,>CF=CFH>CF=CH,>CFH=CH,> > CF=CFCI > CF=CF-CF, > CF= Study of the effect of temperature showed that the reaction rate increases only up to a certain temperature, after which it decreases. Orig. art. has: 1 table and 2 figures. 26Jun65/ ORIG REF: 005/ OTH REF: ATD PRESS: SUB CODE; 07/ SUBM DATE: 547.539.14 Card 1/1

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860620010-7

L 32834-66 EHT(m)/T/EWP(j) WW/GG/RM

ACC NRI AR6000273 SOURCE CODE: UR/0081/65/000/014/S019/S019

AUTHOR: Volkova, Ye. V.; Zimakov, P. V.; Fokin, A. V.; Sorokin, A. D.; Skobina, A. I.; Belikov, V. M.

TITLE: Radiation polymerization of fluoroolefins

SOURCE: Ref. zh. Khimiya, Abs. 148109

TOPIC TAGS: olefin, polymer, radiation polymerization, radiation effect, polymerization

ABSTRACT: A study was made of the bulk polymerization of tetra-fluoroethylene, triffourolethylene, difluoroethylene, triffluorochloroethylene and monofluoroethylene at temperatures ranging from 20 to -780 with exposure to Co⁶⁰ Y-radiation in doses of 1--50 rad/sec. Under these conditions, solid high-molecular polymers were obtained. The bulk polymerization rate was found to decrease in the above order. Certain peculiarities of the processes investigated connected with the products of monomeric radiolysis in the secondary processes leading to the development of active products and connected with the heterogeneity of processes, were determined. Characteristics of radiation polymerization in bulk of hexafluoropropylene (I) in the liquid and solid phases are given. It has been found that the conversion of I occurs at

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ACC NR. AT6034055

SOURCE CODE: UR/0000/66/000/000/0109/0114

AUTHOR: Volkova, Ye. V.; Zimakov, P. V.; Fokin, A. V.; Sorokin, A. D.; Bolikov, V. M.; Bulygian, L. A.; Skobina, A. I.; Krasnousov, L. A.

ORG: none

TITIE: Radiation polymerization of fluoroolefins

SOURCE: Simpozium po radiatsionnoy khimii polimerov. Moscow, 1964. Radiatsionmaya khimiya polimerov (Radiation chemistry of polymers); doklady simpoziuma. Moscow, Izd-vo Nauka, 1966, 109-114

TOPIC TAGS: radiation polymerization, halogenated organic compound, polymerization kinetics, reaction mechanism

ABSTRACT: Results of the authors' previously published studies on radiation polymerization of unsaturated fluorine-containing compounds are reviewed, explaining certain characteristics of the process associated with the effects of the electronegative fluorine atom, heterogeneous process conditions and radiolysis products. Tetrafluoroethylene is distinguished by its rapid polymerization under ionizing irradiation, with complete monomer conversion in three hours at -78° C in liquid phase polymerization with 10 rad/sec radiation, and in ten minutes at $+20^{\circ}$ C. The yield of $7 \times 10^{\circ}$ molec/100ev is the highest known for radiation chemical reactions.

Card 1/2

ACC NR: AT6034055

Progressive substitution of the fluorine atoms by hydrogen or chlorine or by trifluoromethyl groups reduces polymerization rate and yields: perfluoroisobutylene will not polymerize. Thus the rate of radiation polymerization decreases in the will not polymerize. Thus the rate of radiation polymerization decreases in the will not polymerize. CF₂ = CF₄ > CF₂ = CH₂ > CF₄ = CH₂ > CF₄ = CH₂ > CF₅ = CF₅ > CF₇ = CF₇ = CF₇ > CF₇ = CF₇ >

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Card 2/2

ACC NR: AT6034056

SOURCE CODE: UR/0000/66/000/000/0114/0118

AUTHOR: Sorokin, A. D.; Volkova, Ye. V.; Fokin, A. V.; Zimakov, P. V.

ORG: none

TITIE: Radiation bulk and solution polymerization of trifluorochloroethylene

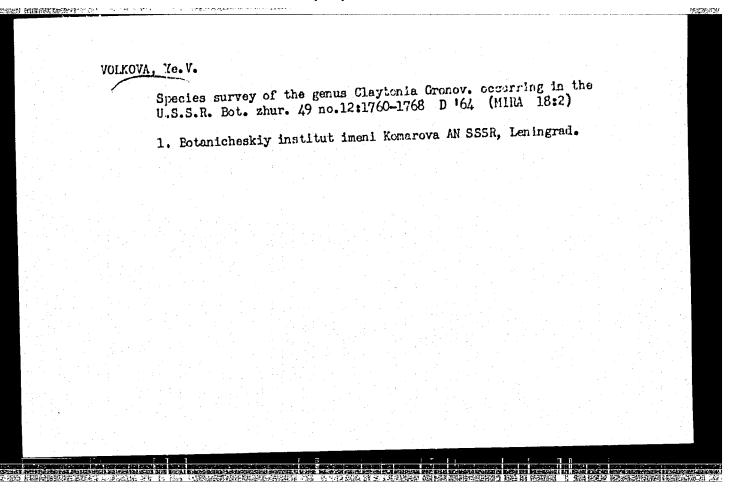
SOURCE: Simpozium po radiatsionnoy khimii polimerov. Moscow, 1964. Radiatsionnaya khimiya polimerov (Radiation chemistry of polymers); doklady simpoziuma. Moscow, Izd-vo Nauka, 1966, 114-118

TOPIC TAGS: radiation polymerization, mixed halogenated organic compound, polymerization kinetics

ABSTRACT: The radiation polymerization trifluorochloroethylene (TFCIE) was studied at different irradiation dosages over a wide temperature range. There is no polymerization at -196°C; at -78°C the yield of a low molecular weight product is only 20 molec/100ev; in the range from -20 to +60°C the energy of activation of the reaction changes from 3.1 to -6.8. As radiation dosage increased, the temperature at which the maximum process rate was attained also increased. As temperature is increased from 10-50°C, the polymerization rate and polymer molecular weight increased; at higher temperatures, the rate and molecular weight decrease. Reaction mechanisms are discussed. Solution polymerization of TFCIE was studied in carbon tetrachloride,

Card 1/2

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GAL'PERIN, Ye.L.; DUBOV, S.S.; VOLKOVA, Ye.V.; MLENIK, M.P.

Crystalline structure of polytrifluorochloroethylene.

Kristallografiia 9 no.1:102-103 Ja-F '64. (MIRA 17:3)

VOLKOVA, Te. V.; FOKIN, A. V.; SOROKIN, A. D.; BULYGINA, L. A.

Polymerization of vinylidene fluoride subjected to the action of gamma rays. Zhur. VKHO 7 no.5:593-594 162.

(Vinylidene compounds) (Gamma rays)

S/844/62/000/000/079/129 D423/D307

AUTHORS: Volkova, Te. V., Fokin, A. V., Zimakov, P. V. and Beli-

TITLE: Certain special features of the radiation polymerization of tetrafluorethylene by the action of B and f radiations

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, 465-469

TEXT: Recent investigations are described of the radiation polymerization of TFE in the solid, liquid and vapor phases, using ${\rm Co}^{60}$ and ${\rm Sr}^{90}$ as the f and ß sources. Irradiation in the liquid phase was carried out at 20 - 25°C using CHCl3 as the solvent with a dose-rate of 11 rad/sec. Conversion of monomer increased with increase of dosage and concentration of monomer. The polymer obtained (PTFE) contained up to 2% chlorine, which was explained by the fact that the CHCl3 also participates in the reaction by interaction of

Card 1/2

Certain special features ...

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radicals and chain breakage in the polymer, resulting in low-molecular weight PTFE. Experiments in the solid state were carried out from -80 to 0°C with dosages of 1 x 105 and 1 x 104 rad. Almost to-20 mins at 0°C. Exceptionally large yields were obtained in comparison with similar reactions of other unsaturated compounds. The existence of a radiation after-effect was confirmed, which continued over several hours after removal of the radiation source. Experiments in the gas phase showed the presence of an induction PTFE the reaction velocity was increased. The temperature was maintained at 20 - 25°C and a Sr 90 ß source was used with a dose-rate diation polymerization with a high yield (approx. 106 mol/100 ev absorbed). There are 5 figures and 1 table.

Card 2/2

5/844/62/000/000/078/129 D423/D307

Volkova, Ye. V., Fokin, A. V. and Sorokin, A. D.

Radiation polymerization of trifluorochlorethylene AUTHORS:

TITLE:

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khinii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, SOURCE:

The present work was carried out in view of the inconclusive results obtained by other workers on the radiation polymerization of F-containing unsaturated organic compounds. Experiments were carof r-containing unsaturated organic compounds. Experiments were carthe initial velocity of polymerization but the relationship between velocity, temperature and radiation dosage was determined over linear sections of the kinetic curves corresponding to 5 - 20% convergion. It was a stablished that advantage and the sections of the kinetic curves corresponding to 5 - 20% convergion. ar sections of the kinetic curves corresponding to 7 - 20% conversion. It was established that polymerization takes place over a wide range of dosage and that it proceeds without a significant induction range of dosage and that it proceeds without a significant induction region who power index of the velocity-dosage relationship varied range of dosage and that it proceeds without a significant induction period. The power index of the velocity-dosage relationship varied from 0.35 to 0.5 for higher dosages, and the relationship was character from 0.35 to 0.5 for higher dosages,

Card 1/2

Radiation polymerization of ...

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teristic for chain reaction processes. The presence also of a radiation 'after-effect' was shown, which lasted over a period of 2 days. Between -21 and +600C the rate of polymerization increased initially to a maximum at 35°C and then fell off, confirming the results obtained by Roberts. Over the temperature range studied, the radiation yield amounted to 27,000 mol/100 ev absorbed energy for a dose of 3 x 103 rad/hr. On increasing the temperature from 0°C to 35°C, a reduction in the molecular weight of the polymer was observed and this duction in the molecular weight of the polymer was observed and this value was also reduced at higher doses. The experiments indicated that radiation polymerization of trifluorochlorethylene takes place by a chain process, originated by a radical mechanism. There are 5

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8/844/62/000/000/074/129 D214/D307

Krasnousov, L. A., Zimakov, P. V. and Volkova, Yc. V.

Some characteristics of the radiochlorination of benzene AUTHORS:

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-TITLE:

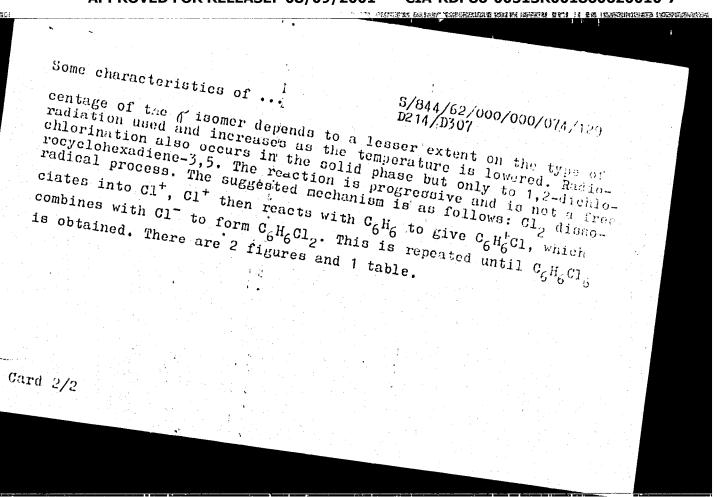
mii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, SOURCE:

The initiation of the chlorination of C_6H_6 by γ , β , ir and uv radiation was studied. Irradiation of chlorine in benzene led to the dissociation of Cl_2 . Since C_6H_6 is a good energy carrier, this additional energy causes the intermediate chlorination products to isomerize, thus changing the isomeric composition of the final product - hexachlorocyclohexane. With f rays, initiation occurs throughout the solution while uv and B rays are absorbed in the outside out the solution while uv and B rays are absorbed in the design. layers of the solution. Regardless of the radiation used, the q-isomer is the main product; its amount depends on the type of radiation (7 rays - 83.3%; & rays - 78%; uv - 73.8%; ir 67.0%). The per-

Card 1/2

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860620010-7"



41119 S/063/62/007/005/006 A057/A126

11 2214 AUTHORS:

Ye.V., Fokin, A.V., Sorokin, A.D., Bulygina, L.A.

TITLE:

On the polymerization of vinylidenfluoride under the influence of ∂ -irradiation

PERIODICAL: Zhurnal vsesoyuznogo khimicheskogo obshchestva imeni D.I. Mendeleyeva,

Radiative polymerization "in bulk" of vinylidenfluoride was investigated and the obtained results compared with previous studies carried out with tetrafluoroethylene and trifluorochlorethylene. The rate of radiative polymerization under same conditions lies in the sequence tetrafluoroethylene > vinylidenfluoride> trifluorochlorethylene and the corresponding yields per 100 ev are 106, 105, and 104 molecules, respectively. The polymerization occurs in all cases with a high conversion rate, practically up to 100%. The present experiments were made in 25 ml 1 X 18 H9T (1Kh18N9T) steel autoclave test tubes, using a Co60 source with a total capacity of 5,000 g.equiv. Ra. A considerable induction period, effected by impurities (especially oxygen), was observed and, therefore, the monomer purified before use. The latter was a commercial grade of 99.8% purity. The de-

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CIA-RDP86-00513R001860620010-7

On the polymerization of.

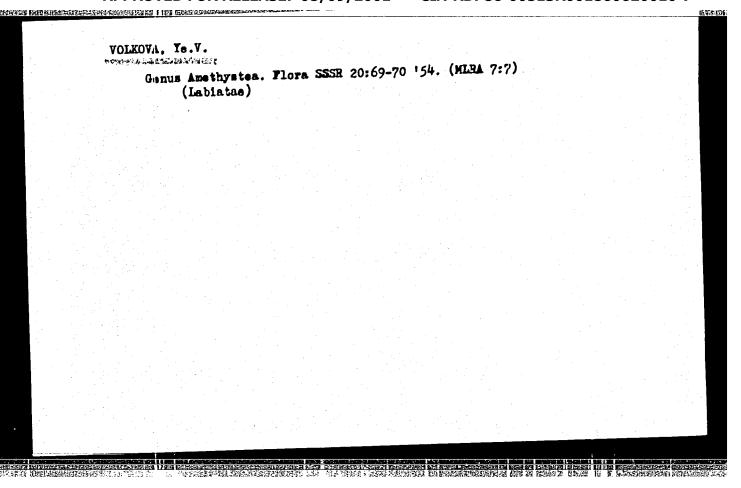
18/063/62/007/005/006/006 14057/4126

pendence of the conversion upon the irradiation time was studied at 23°C with doses of 1, 5, 10, and 30 rad/sec and the rate of reaction determined from the inclination of the kinetic curves. The value of the radiation-chemical yield deradiation polymerization but for all investigated temperature raises the rate of the at 10 rad/sec) a maximum value was obtained after about 6 h. The total activation /mole. The process occurs by a radical-chain mechanism.

10

SUBMITTED: May 12, 1962

Card 2/2



WOLKOVA, Te.V. A new species of the gemms Claytonia Gronov. from the Chukchi Peninsula. Bot.mat.Gerb. 20:139-141 '60. (MIRA 13:7) (Chukchi Peninsula—Spring beauty)	\$		e
A new species of the genus Claytonia Gronov. from the Chukchi Peninsula. Bot.mat.Gerb. 20:139-141 160. (MIRA 13:7)			
A new species of the genus Claytonia Gronov. from the Chukchi Peninsula. Bot.mat.Gerb. 20:139-141 60. (MIRA 13:7)	VOLKOVA,	Ye.V.	
(Chukchi Peninsula—Spring beauty)	And the second s	A new species of the genus Claytonia Gronov. from the Chukchi Peninsula. Bot.mat.Gerb. 20:139-141 160. (MIRA 13:7)	
		(Chukchi Peninsula—Spring beauty)	
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CVOLKOVA, Ye.Ye.

Late results of reorganization in training subprofessional medical personnel under the new conditions. Med. sestra 19 no. 10:39-42 (MIRA 13:10)

1. Ministerstvo zdravookhraneniya SSSR, Moskva.
(MEDICINE—STUDY AND TEACHING)

KAPLAN, S.I.; VOLKOVA, Yu.V.

Phase equilibrium in systems containing tetracycline. Antibiotizi ?
no.3:201-205 Mr '64. (MIRA 1:12)

1. Vsesoyuznyy nauchno-issledovateliskiy institut antibiotikov, Moskra.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620010-7"

WOLKOVA, Z.A. (Moskva) Effect of air temperature on the transformation and disintoxication of aniline in the animal's body. Gig.trude i prof. 2av. 2 no.4:30-36 Jl-Ag '58 (MIRA 11:9) 1. Institut gigiyeny truda i profzabolevaniy AMN SSSR i kafedra promyshlennoy gigiyeny TSentral'nogo instituta usovershenstvovaniya vrachey. (ANILINE) (TEMPERATURE—PHYSIOLOGICAL EFFECT)

MATSAK, V.G., kandidat tekhnicheskikh nauk; VOLKOVA, Z.A., kandidat meditsinskikh nauk

Case of group poisoning from chlorine. Gig. i san. 21 no.9:70-71 S *56. (MLRA 9:10)

1. Iz Instituta gigiyeny truda i professional'nykh sabolevaniy AMN SSSR.

(GHLORINE—TOXICOLOGY)

VOLKOWA, 2 M. SAVEL YEVA, Z.D., kandidat meditainakikh nauk; PRIVEZENTSEVA, S.N.; VOLKOVA, Z.A., kandidat meditainakikh nauk Affect of working conditions on the course of gymecological itemases and pregnancy. Sov.zdrav. 16 no.8:21-25 Ag '57. (MIRA 19:19) 1. Iz Institute akusherstva i ginakologii Ministeretva zdravcokuraneniye RSFSR (dir. - dotsent L.G.Stepanov) i kafedry promyshlem. gigiyeny (zav. - prof. Z.D. Smelyanskiy) TSentralinogo instituta usovershenstvovaniya vrachey (INDUSTRIAL HYGIENE eff. of working como. in shoe factory on stiol. of gyn. dis. & pregn.) (PREGNANCY eff. of working cond. in shoe factory) (GYNECOLOGICAL DISEASES, etiol, and oathogen. same)

"On the Determination of Toxicity of Color Developer," by Z. A. Volkova, Candidate of Medical Sciences, Chair of Industrial Hygiene Central Institute for the Advanced Training of Physicians, Gigiyena i Sanitariya, Vol 22, No 5, May 57, pp 41-45

The work reports the results of experiments which were conducted to determine the toxicity of diethylparaphenylenediaminesulfate (TSS)-- $C_6H_1NH_2N(C_2H_5)_2.H_2SO_4$ -- now widely used as a color developer in color photography. The experiments established that the chemical is toxic to aminals and ir cases of acute intoxication affects the central nervous system. TTS may enter the organism in the form of dust or vapor through the respiratory

passages and through the gastro intestinal tract. It is thought that it may also be absorbed through the skin. Repeated administrations of small doses of TSS to white mice produced modifications in the organs, the liver in particular. In pure form, TSS may cause skin affections (U)

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SOV/137-59-1-1168

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 159 (USSR)

Volkov, Yu. V., Volkova, Z. A.

The Critical Specific Pressure as an Indicator of Wear Resistance AUTHORS: TITLE:

(Kriticheskoye udel'noye davleniye - pokazatel' iznosostoykosti)

Dokl. 7-y Nauchn. konferentsii, posvyashch. 40-letiyu Velikoy Oktyabr'sk. sots. revolyutsii. Nr 2. Tomsk, Tomskiy un-t, 1957, PERIODICAL:

pp 47-48

ABSTRACT: The authors investigated the wear resistance of some grades of steel and bearing bronze under the conditions of boundary lubrica-

tion. Specimens of variable (wedge-shaped) cross-sections worn against a super-smooth surface of a hard-alloy roller were used in the experiments. It was established that for each of the materials tested there exists a certain critical specific pressure which corresponds to the transition from a slow normal wear of the specimen to an extremely intense wear. The authors point out the connection between the critical pressure with respect to friction and certain

mechanical properties of the material, namely, its hardness and

crumbling strength under static loads. Card 1/1

CIA-RDP86-00513R001860620010-7" APPROVED FOR RELEASE: 08/09/2001

SOV/137-58-10-21606

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 164 (USSR)

Volkova, Z.A., Volkov, Yu.V. AUTHORS:

An Investigation of Wear-resistant Properties of Steel 45 Under TITLE:

Certain Conditions of Boundary Friction (Issledovaniye izno-

sostoykosti zakalennov stali 45 v nekotorykh usloviyakh gran-

ichnogo treniya)

Dokl.7-y Nauchn. konferentsii, posvyashch. 40-letiyu Veli-PERIODICAL:

koy Oktyabr'sk. sots. revolyutsii. Nr 2. Tomsk, Tomskiy

un-t, 1957, pp 48-49

Wear-resistant properties of hardened 45 steel were investigated under conditions of boundary friction at sliding veloc-ABSTRACT:

ities of 0.44, 0.63, and 0.88 m/sec under loads which varied from 10 to 200 kg. The temperature is a paramount factor in determining the wear resistance of a steel. Under operating conditions involving temperatures due to friction not in excess of 350-400°C, the wear resistance of steel is a function of changes in its mechanical properties which occur as a result of tempering at various temperatures. Under operating condi-

tions during which the temperature due to friction exceeds Card 1/2

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CIA-RDP86-00513R001860620010-7"

SOV/137-58-10-21606

An Investigation of Wear-resistant Properties of Steel 45 (cont.)

400°, the wear resistance of the steel increases as a result of regeneration phenomena occurring on the surface of friction and attains a maximum at a friction temperature of 800-9000, i.e., at a point when the surface of friction is completely coated with a regenerated layer. I.B.

1. Steel--Mechanical properties 2. Steel--Temperature factors

3. Friction--Thermal effects 4. Abrasion--Test methods

Card 2/2

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620010-7"

VCIKOVA, Z.A., Cand Tech Sci-(dice) " Study of the temper for Went the friction and wearing out promise in counterly lubrication work, leading the friction and wearing out promise in counterly lubrication uses. Ural Poster Secretary, 1958. 15 pp. (Lin of Higher Raucation Uses. Ural Poster S.E.Kirov), 150 copies. Bibliography: mild-15 (EL,44-5), 13	effect of
When the friction and wearing out the Sverdlevek, 1958. 15 pp (Lin of Richer Education USER. Ural Poster S.M. Kirov), 150 copies. Bibliography: 194-15 (EL, 44-5, 12)	
S.M. Kirov), 100 Gogados	olytich Inst 22)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620010-7"

SOV/137-58-12-25179

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 163 (USSR)

AUTHORS: Volkova, Z. A., Volkov, Yu. V.

TITLE:

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Changes in the Carrying Capacity of Hardened Carbon Steel in Relation to Structural and Phase Transformations Under Marginal Friction (Izmeneniye nesushchey sposobnosti zakalennoy uglerodistoy stali v svyazi so strukturnymi i fazovymi prevrashcheniyami pri granichnom

PERIODICAL Izv. vyssh. uchebn. zavedeniy. Fizika, 1958, Nr 1, pp 124-131

ABSTRACT: Results are reported on the investigation of wear resistance of St-45 steel quenched in water or oil and quenched in oil with tempering for l hour at 185, 350, and 550°C. The critical pressure, i.e., the carrying capacity of the material under friction (F) serves as the wearresistance indicator. Blocks with two wedge-shaped supporting rightangle projections were used as specimens. A roller of VK-6 with a surface polished to class 12 - 13 of surface finish was used as the counterbody. It is shown that temperature is the most important factor in determining the carrying capacity of steel under F. Its effect is evident through the change of the physico-chemical properties

Card 1/2

Unal Polytech. Insh in S. M. Kirov

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620010-7"

SOV/137-58-12-25179

Changes in the Carrying Capacity of Hardened Carbon Steel in Relation to (cont.)

of the active surface layers caused by structural and phase transformations which take place in these layers in the process of F. In the <350-530° temperature range the critical pressure changes with the change in the mechanical properties of steel acquired upon tempering at the respective temperatures. In the >350-550° temperature range the critical pressure increases owing to the formation on the F surface of a bright, structurally homogeneous layer and attains its maximum at an F temperature in the vicinity of Ac₁-Ac₃, when the whole F surface is covered with this layer.

A. N.

Card 2/2

VOLKOVA, Z.A.; SMEIYANSKIY, Z.B., prof., red.; TIMKO, A.M., red.

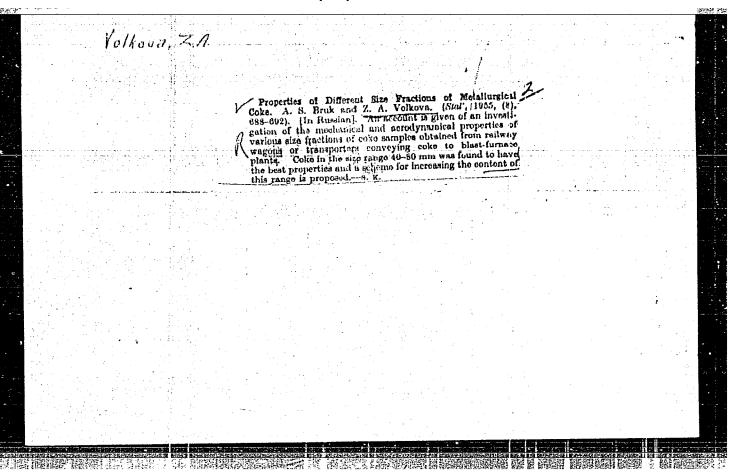
[Meteorological conditions in industry and prophylactic measures] Meteorologicheskie usloviia na proizvodstve 1 mery profilektiki. Moskva, TSentr. in-t usovershenstvovaniia vrachei, 1959. 23 p. (Lektsii po gigiene truda dlia vrachei SES i nachal'nikov MSCh, no.6)

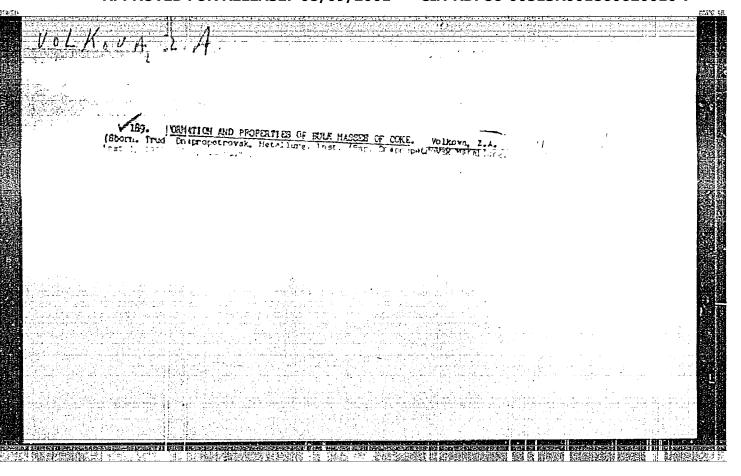
(MIRA 17:4)

VOLKOVA, Z. A.

"Strength and Gas Permeability of Filled Masses of Cole." Min Higher Education USER,
Dnepropetrovsk Crder of Labor Red Banner Metallurgical Instiment I. V. Stalin,
Dnepropetrovsk, 1952
(Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Istonis!, No. 32, 6 Aug 55





ARONOV, Samuil Grigor'yevich; BAUTIN, Ivan Grigor'yevich; VOLKOVA. Zoya
Andreyevna; VOLOSHIN, Arkhip Il'ich; VIROZUB, Yevgeniy Vladimirovich;
GARAY, Lev Izrailevich, DIDENKO, Viktor Yefimovich; ZASHKVARA, Vasiliy Grigor'yevich; IVANOV, Pavel Aleksandrovich, KUSTOV, Boris
Iosifovich [deceased]; KOTOV, Ivan Konstantinovich; KOTKIN, Aleksandr
Matveyevich; KOMANOVSKIY, Maksim Semenovich; LEYTES, Viktor Abramovich,
MOROZ, Mikhail Yakovlevich; NIKOIAYEV, Dmitriy Dmitriyevich, OBUKHOV—
SKIY Yakov Mironovich; RODSHTEYN, Pavel Moiseyevich; SAPOZHNIKOV,
Yakov Yudovich, SENICHENKO, Sergey Yefimovich; TOPORKOV, Vasiliy
Yakovlevich; CHERMNYKH Mikhail Sergeyevich; CHERKASSKAYA, Esfir'
Ionovna, SHVARTS, Semen Aronovich; SHERMAN, Mikhail Yakovlevich;
SHVARTS, Grigoriy Aleksandrovich; LIBERMAN, S.S., redaktor izdatel'—
stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Producing blast furnace coke of uniform quality; a collection of articles for the disemmination of advanced practices] Poluchenia domennogo koksa postoiannogo kachestva; abornik statei po obmenu peredovym opytom. Khar'kov. Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 300 p. (MLRA 9:8) (Coke industry)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620010-7"

sov/68-58-12-2/25

Obukhovskiy Ya.M. (Candidate of Technical Science) and AUTHOR:

Volkova Z.A.

Material Balance of Coking Coal Charges (Material'nyy TITLE:

balans koksovaniya ugol'nykh shikht)

PERIODICAL: Koks i Khimiya, 1958, Nr 12, pp 5-7 (USSR)

ABSTRACT: It is pointed out that a material balance of the coking process presents an important method of assessing process

losses and inaccuracies in reporting the outputs of coking products. The main difficulty in the preparation of such belances is lack of data on the amount of air drawn in, which increases the amount of gas produced, and the amount of pyrogenic water evolved during coking. It is proposed to correct the output of gas for drawn in air on the basis of mitrogen content in the coal charge, as generally 35% of mitrogen in soal is transferred into the gas. For the calculation of this correction the following formula is proposal:

 $\frac{0.35}{1.25}$ Ncoal· 1000) $\frac{1}{79}$ m³/ton of coal Vair = (Ygas Ngas -

Where Vair . amount of drawn in air/ton of coal as charged Card 1/3(including noisture), m3; 7gas - the yield of gas per ton

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sov/68-58-12-2/25

Material Balance of Coking Coal Charges of coal charged together with drawn in air, m3; Ngas nitrogen content in the gas, vol. %; 0.35 - coefficient determining the proportion of nitrogen in coal transferred to gas; 1.25 - the weight of lm3 of nitrogen, kg; Ncoal - nitrogen content of coal as charged, %; 1000 - the weight of charge for which the material balance is being calculated, kg; 79 - nitrogen content of air, The yield of pyrogenic water can be calculated vol.%. on the basis of the well established ratio of oxygen of pyrogenic water to oxygen of coal equals 0.55. yield can be calculated from the following formula:

Wp.w. = 0.55. Ocoal $\cdot \frac{18}{16}$,

where: Wp.w. - the yield of pyrogenic water on coal as charged, %; Ocoal - oxygen content of coal as charged, %; 18 - molecular weight of water; 16 - atomic weight of oxygen. Using above formula material balances for a number of coking works for 1957 were calculated (Table 2). The works were divided into two groups with and without Card 2/3 coal washeries. Material balances for works without

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sov/68-58-12-2/25

Material Balance of Coking Coal Charges

washeries were much closer than for works with washeries. It is pointed out that the latter works underestimate coke yields. If coke yields, calculated on the basis of a formula:

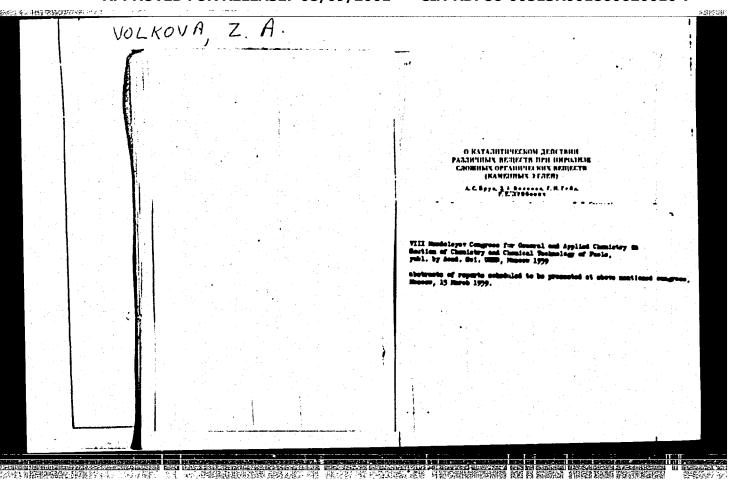
coke yield = 100 - Volatile in coel x 100 + a

(where a = 47.1 - 0.58 100 ... volatile in coal . 100) are substituted for the reported coke yields then better balances can be obtained (Table 3).

There are 3 tables and 5 references, all Soviet.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Enepropetrovsk Metallurgical Institute)

Card 3/3



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620010-7"

sov/68-59-1-6/26

Bruk, A.S., Doctor of Technical Sciences, Volkova, Leybovich, R.Ye., Obukhovskiy, Ya.M., Candidates of AUTHORS:

Technical Sciences and Leytes, V.A.

Physico-mechanical and Physico-chemical Properties of TITLE: Narrow-size Fractions of Blast Furnace Coke (Fiziko-

mekhanicheskiye i fiziko-khimicheskiye svoystva uzkikh

klassov domennogo koksa)

PERIODICAL: Koks i Khimiya, 1959, Nr 1, pp 21 - 24 (USSR)

ABSTRACT: Properties of size fractions of coke: above 80 mm, 80-60 mm, 60-40 mm and 40-25 mm were investigated. Mechanical properties were tested by standard drum tests

(GOST 5953-51); results are given in Table 1; reactivity by reduction of carbon dioxide to monoxide according to Ref 6; results - Table 2; the hardness of the coke substance according to Ref ?; results - Table 3 and the degree of carbonisation of the coke by measurements

of its electro-conductivity, according to Ref 8; results - Table 4. It was found that the quality of blast-furnace coke is determined by properties of its individual

fractions and is non-uniform not only in respect of size fractions but also in respect of other properties characterising these size fractions such as strength,

Card1/2

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SOV/68-59-1-6/26

Physico-mechanical and Physico-chemical Properties of Karrow-size Fractions of Blast Furnace Coke

hardness, reactivity and the degree of carbonisation. Differences in properties of the individual size fractions of coke, while the quality of the coal blend remains constant, are determined by thermal conditions of coking. The most uniform in respect of all the properties tested are size fractions 60-40 and 80-60 mm. Separation of these most uniform fractions may secure the supply of blast furnaces with the most uniform fuel. There are 4 tables and 8 Soviet references.

ASSOCIATIONS:

Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute); and Gosplan of the Ukrainian SSR (V.A. Leytes)

Card 2/2

sov/68-59-8-2/32

AUTHORS:

Volkova, Z.A. and Obukhovskiy, Ya.M.

TITLE:

Material Balance of Carbonisation of Coal Blends on the Coking Works of the UkrSSR for 1958 (Material'nyy balans koksovaniya ugol'nykh shikht na koksokhimicheskikh zavodakh USSR za 1958 g)

PERIODICAL: Koks i khimiya, 1959, Nr 8, pp 5-6 (USSR)

ABSTRACT:

It was established that, on coking blends from Donets coals in silica ovens, on average 43.7% of oxygen from coals is transferred into pyrogenic water (and not 55% as was previously thought). A material balance of coking blends on the Ukrainian Coking Works for 1958 is given in the form of a table. Unaccounted losses varied on the individual works from 0.28 to 3.12%. There is 1 table and 1 Soviet reference.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute)

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620010-7"

BRUK, A.S.; OBUKHOVSKIY, Ya.M.; VOLKOVA, Z.A.; BELETSKIY, V.G.; ANTOHOV, A.T.; SHEVCHENKO, A.I.

Effect of bulk weight of coal charges on the mechanical properties of coke. Koks i khim. no.11:20-25 60. (MIRA 13:11)

1. Dnepropetrovskiy metallurgicheskiy institut (for Bruk, Obukhov-skiy, Volkova, Beletskiy). 2. Yasinovskiy koksokhimicheskiy zavod (for Antonov, Shevchenko).

(Coke)

SHTROMBERG, B.I.; MIROSHNICHERKO, A.M.; MOYSEYEVA, Kh.M.; KRIVOKON', Tu.G.;
ERUK, A.S.; VOLKOVA, Z.A.; GETD, G.P.; OBUKHOVSKIY, Ya.M.

Investigation of the coals of the Lwov-Volyn' Rasin. Koks i khim.
no.1:12-17 '61.

1. Ukrainskiy uglekhimicheskiy institut (for Shtromberg, Miroshnichenko, Moysoyeva, Krivokon'). 2. Dnepropetrovskiy metallurgicheskiy institut (for Bruk, Volkova, Geyd, Obukhovskiy).

(Iwov-Volyn' Basin-Coal)

LETAVET, Avgust Andreyevich, prof., red.; KHUKHRINA, Yekaterina Vladimirovna, prof., red.; VOLKOVA, Z.A., red.

[Control of dust formation in industry] Bor'ba as pyleobrazovaniem na proizvodstve. Moskva, Meditsina, 1964. 271 p. (MIRA 18:2)

1. Akademiya meditsinskikh nærk, Moscow. 2. Deystvitelingy chlen AMN SSSR (for Letavet).

